

# **ARTIFICIAL INTELLIGENCE**

**(CSC 462)**

**LAB # 1**



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**CLASS & SECTION:** BSSE-5A

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## Task 1: Reverse the number

main.py	Shell
<pre> 1 n = int(input("enter number: ")) 2 r=0 3 while n!=0: 4     r*=10 5     r = r + n%10 6     n = n//10 7 print("reversed number is: ", r) </pre>	<pre> enter number: 12345 reversed number is:  54321 &gt; </pre>

## Task 2: Sum of even and odd numbers

main.py	Shell
<pre> 1 esum=0 2 osum=0 3 while True: 4     n=int(input("Enter integer: ")) 5     if n==0: 6         break 7     elif n%2==0: 8         esum+=n 9     else: 10        osum+=n 11 print("Sum of even:",esum) 12 print("Sum of odd:",osum) </pre>	<pre> Enter integer: 2 Enter integer: 3 Enter integer: 2 Enter integer: 3 Enter integer: 2 Enter integer: 3 Enter integer: 0 Sum of even: 6 Sum of odd: 9 &gt; </pre>

## Task 3: Fibonacci Series

main.py	Shell
<pre> 1 t = int(input("Enter terms: ")) 2 x=0 3 y=1 4 c=0 5 if t == 1: 6     print(x) 7 else: 8     while c &lt; t: 9         print(x) 10        z = x + y 11        x = y 12        y = z 13        c += 1 </pre>	<pre> Enter terms: 6 0 1 1 2 3 5 &gt; </pre>

## Task 4: Marks Grading

main.py	Shell
<pre>1 marks=int(input("Enter marks between 1-100: ")) 2 if marks&lt;0 or marks&gt;100: 3     print("Invalid Input") 4 elif marks&lt;50: 5     print("Grade F") 6 elif marks&lt;60: 7     print("Grade E") 8 elif marks&lt;70: 9     print("Grade D") 10 elif marks&lt;80: 11     print("Grade C") 12 elif marks&lt;90: 13     print("Grade B") 14 else: 15     print("Grade A")</pre>	<pre>Enter marks between 1-100: 76 Grade C &gt;  </pre>

## Task 5: Factorial

main.py	Shell
<pre>1 n=int(input("Enter a number: ")) 2 i=1 3 fact=1 4 while i&lt;=n: 5     fact*=i 6     i+=1 7 print("Factorial: ", fact)</pre>	<pre>Enter a number: 5 Factorial: 120 &gt;</pre>